



HOUGHTON™

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : HOCUT 795 H
Product code : M7077.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Soluble metalworking fluid for machining operations

1.3. Details of the supplier of the safety data sheet

Registered company name : Houghton Deutschland GmbH.
Address : Giselherstr. 57. D-44319. Dortmund.Deutschland.
Telephone : ++49 (0)231/9277-0. Fax : ++49 (0)231/9277-120.
MSDS@houghtonintl.com

1.4. Emergency telephone number : (+1) 1 760 476 3961.

Association/Organisation : Code 333938 3E company - Global incident response (24/7).

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Possibility of irritation to the skin.
Possibility of serious lesions to the eyes.
May produce an allergic reaction.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Irritant



Dangerous for the environment

Contains :

Contains EC 259-627-5 3-IODO-2-PROPYNYL BUTYLCARBAMATE. May produce an allergic reaction.

Risk phrase :

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.

Safety phrase :

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/39 Wear suitable protective clothing and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 37 Wear suitable gloves.

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2.3. Other hazards

High risk of slipping due to leakage/spillage of product.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: 649-466-00-2 CAS: 64742-53-6 EC: 265-156-6 DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC			L	25 <= x % < 50
CAS: 101-83-7* EC: 202-980-7* DICYCLOHEXYLAMINE, NEUTRALIZED	Skin Corr. 1B, H314	Xn,N Xn;R22 N;R50/53		2.5 <= x % < 10
INDEX: 603-082-00-1 CAS: 78-96-6 EC: 201-162-7 ISOPROPANOLAMINE	GHS05 Dgr Skin Corr. 1B, H314	C C;R34	[1]	2.5 <= x % < 10
CAS: 68131-39-5 EC: 500-195-7 REACH: 01-2119488720-33-xxxx ALCOHOL, C12-15, ETHOXYLATED	GHS05, GHS09 Dgr Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 1	Xi,N Xi;R41 N;R50		2.5 <= x % < 10
FATTY ALCOHOL ALKOXYLATED	GHS05, GHS09 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 1	Xi,N Xi;R41-R38 N;R50		2.5 <= x % < 10
CAS: 102-71-6 EC: 203-049-8 REACH: 01-2119486482-31 2,2',2"-NITRILOTRIETHANOL			[1]	1 <= x % < 2.5
CAS: *3302-10-1 EC: *221-975-0 REACH: 01-2119517580-45 3,5,5-TRIMETHYLHEXANOIC ACID, NEUTRALISED	GHS07 Wng Acute Tox. 4, H302	Xn Xn;R22		1 <= x % < 2.5
CAS: 61791-14-8 EC: 500-152-2 AMINES, COCO ALKYL, ETHOXYLATED	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 1	Xn,N Xn;R22 Xi;R38-R41 N;R50		0 <= x % < 1
CAS: 55406-53-6 EC: 259-627-5 3-IODO-2-PROPYNYL BUTYLCARBAMATE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1	Xn,N Xn;R20/22 Xi;R41-R43-R37 N;R50		0 <= x % < 1

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Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

Note L: The carcinogen classification does not apply because the substance contains less than 3 % w/w of dimethyl sulphoxide (DMSO) measured using the IP 346 method.

Other data :

* CAS/EINECS for free acid, base or alkanolamine

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In case of big quantities inhaled, move affected person to fresh air, keep warm and allow to rest.

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention, showing the label.

Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Information for the doctor :

Treat symptomatically

SECTION 5 : FIREFIGHTING MEASURES

This product only burns after evaporation of water by the extremely high temperatures during fire.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

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- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)
- PO_x

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

Avoid any contact with the skin and eyes.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

Pick up the liquid with pumps or shovels.

Clean contaminated floors and objects thoroughly observing environmental regulations.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Conditions according to local authorities.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Handle in well-ventilated areas.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

Do not store together with strong oxidizing agents.

Avoid contact with materials which react with water.

Storage

Keep away from food and drink.

Storage temperature: 5 - 40 °C

Storage time: 6 month

Keep packaging closed and away from frost.

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Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

The names of the components identified in this chapter by CAS are mentioned in chapter 2.

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS	VME :	VME :	Excess	Notes
78-96-6	2 ml/m3	5,8 mg/m3	2 (I)	AGS

- Belgium (Order of 19/05/2009, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

- Denmark (2007) :

CAS	TWA :	TWA :	Anm :
102-71-6	0.5 ppm	3.1 mg/m3	-

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

- Ireland (Code of practice for the safety, Health and Welfare at Work, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

- Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, May 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

- Netherlands / MAC-waarde (SER, 4 May 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	-	-	-	-

Czech Republic (Regulation No. 361/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	10 mg/m3	-	-	-

- Sweden (AFS 2007:2) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
102-71-6	5 mg/m3	10 mg/m3	-	-	-

Substance: Oil mist, mineral

Exposure Duration: TWA Exposure Limit: 5 mg/m³ Exposure Duration: STEL Exposure Limit: 10 mg/m³

Regulations:: ACGIH Threshold Limit Values; UK: EH 40 Health and Safety Executive. EH40; Occupational Exposure Limits

8.2. Exposure controls

Suitable technical inspections

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Wear protective gloves if advisable under safety aspects.

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- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties :

- Impervious gloves in accordance with standard EN374

penetration time: level 6, >480 min., thickness 0,9-1 mm

Use appropriate protection cream, especially if for safety reasons protective gloves are not advisable.

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Don't keep lubricant contaminated rags in pockets of working clothes.

- Respiratory protection

Independent breathing apparatus for respiratory protection :

In case of forming of mist or if ventilation is not sufficient it's recommended to wear breathing apparatus.

In case of higher concentrations than exposure limits, wear approved and appropriate respirator apparatus (type FFA1P1 according to standard CE EN 405).

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : fluid liquid.

Important health, safety and environmental information

pH : slightly basic.

pH (aqueous solution) : Not stated.

Boiling point/boiling range : ~10,1 [6%; DIN 51369]

Flash point interval : not specified.

Flash point interval : not relevant.

Vapour pressure (50 °C) : not relevant.

Density : ~930 kg/m³ [20 °C;ASTM D 4052]

Water solubility : Dilutable.

Viscosity : ~210 mm²/s [20 °C;ASTM D 7042]

Melting point/melting range : not specified.

Self-ignition temperature : not specified.

Decomposition point/decomposition range : not specified.

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9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

Stable product at the usual temperatures of storage, handling and use.

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

- frost

10.5. Incompatible materials

Keep away from :

- strong acids
- strong bases
- strong oxidising agents

Materials which strongly react with water.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

The toxicological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substances/preparations directive.

11.1.1. Substances

Acute toxicity :

3-IODO-2-PROPYNYL BUTYLCARBAMATE (CAS: 55406-53-6)

Oral route : 300 < DL50 <= 2000 mg/kg
Species : Rat

Species : Rat

Inhalation route : LC50 = 0.67 mg/l
OECD Guideline 403 (Acute Inhalation Toxicity)

AMINES, COCO ALKYL, ETHOXYLATED (CAS: 61791-14-8)

Oral route : 300 < DL50 <= 2000 mg/kg
Species : Rat (recommended by the CLP)

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)

Oral route : DL50 = 7200 mg/kg

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Species : Rat

Dermal route : DL50 > 2000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

FATTY ALCOHOL ALKOXYLATED
Oral route : DL50 > 2000 mg/kg
Species : Rat (recommended by the CLP)

ALCOHOL, C12-15, ETHOXYLATED (CAS: 68131-39-5)
Oral route : DL50 > 5000 mg/kg

Dermal route : DL50 > 2000 mg/kg

DICYCLOHEXYLAMINE, NEUTRALIZED (CAS: 101-83-7*)
Oral route : DL50 = 200 mg/kg
Species : Rat (recommended by the CLP)

Dermal route : DL50 < 500 mg/kg
Species : Rabbit (recommended by the CLP)

Inhalation route : LC50 > 1.4 mg/l
Species : Rat (recommended by the CLP)

Skin corrosion/skin irritation :

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6)
Corrosivity : No observed effect.

DICYCLOHEXYLAMINE, NEUTRALIZED (CAS: 101-83-7*)
Corrosivity : Causes severe skin burns.
Species : Rabbit (recommended by the CLP)

Serious damage to eyes/eye irritation :

DICYCLOHEXYLAMINE, NEUTRALIZED (CAS: 101-83-7*)
Corneal haze : Average score = 1
Species : Rabbit (recommended by the CLP)

Iritis : Average score = 1
Species : Rabbit (recommended by the CLP)

Conjunctival redness : Average score = 1
Species : Rabbit (recommended by the CLP)

Conjunctival oedema : Average score = 1
Species : Rabbit (recommended by the CLP)

Respiratory or skin sensitisation :

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)
Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity :

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)
No mutagenic effect.

DICYCLOHEXYLAMINE, NEUTRALIZED (CAS: 101-83-7*)
No mutagenic effect.

Ames test (in vitro) : Negative.

Carcinogenicity :

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)
Carcinogenicity Test : Negative.

No carcinogenic effect.

Reproductive toxicant :

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)
No toxic effect for reproduction
Study on fertility : Species : Rat

Specific target organ systemic toxicity - repeated exposure :

DICYCLOHEXYLAMINE, NEUTRALIZED (CAS: 101-83-7*)
Oral route : C = 40 mg/kg bodyweight/jour
Species : Rat (recommanded by CLP)
Duration of exposure : 90 days

11.1.2. Mixture

No toxicological data available for the mixture.

Acute toxicity :

Inhalation: Toxic effects are not expected: LC50 >5 mg/l/4h (rat)
Ingestion: Toxic effects are not expected: LC50 > 2000 mg/kg (rat)
Skin: Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

Skin corrosion/skin irritation :

Irritant

Serious damage to eyes/eye irritation :

Contact with eyes may cause severe damages.

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.
Sensitization by inhalation is not expected.

Germ cell mutagenicity :

The product is not expected to be mutagenic,

Carcinogenicity :

The product is not expected to be carcinogenic.

Reproductive toxicant :

The product is not expected to be teratogenic or toxic for reproduction.

Other information

No data available to demonstrate that the product has chronic or harmful effects on human health.
During use, the accumulation of substances, which may be hazardous for human health, is possible.
Contact with skin may cause skin irritation and dermatosis, if corrected procedures for personal hygiene might not be taken under consideration.

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SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

The ecological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substance/preparation directive.

12.1. Toxicity

12.1.1. Substances

ALCOHOL, C12-15, ETHOXYLATED (CAS: 68131-39-5)

Crustacean toxicity : 0.1 < EC50 <= 1 mg/l
Factor M = 1

Algae toxicity : 0.1 < ECr50 <= 1 mg/l
Factor M = 1

3-IODO-2-PROPYNYL BUTYLCARBAMATE (CAS: 55406-53-6)

Fish toxicity : LC50 = 0.335 mg/l
Factor M = 1
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 3.25 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 = 0.13 mg/l
Factor M = 1
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

AMINES, COCO ALKYL, ETHOXYLATED (CAS: 61791-14-8)

Fish toxicity : LC50 = 0.48 mg/l
Factor M = 1
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 0.37 mg/l
Factor M = 1
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : 0.1 < ECr50 <= 1 mg/l
Factor M = 1

2,2',2"-NITRILOTRIETHANOL (CAS: 102-71-6)

Fish toxicity : LC50 = 11800 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 2038 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 = 512 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

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FATTY ALCOHOL ALKOXYLATED

Fish toxicity : 0.1 < LC50 <= 1 mg/l
Factor M = 1
Species : Brachydanio rerio

Aquatic plant toxicity : 0.1 < ECr50 <= 1 mg/l
Factor M = 1

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.
Toxic to aquatic organisms: 1 < LC50/EC50/IC50 < 10 mg/l.

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The product emulsifies in water.
The product will be partly adsorbed by soil particles.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Informations on adsorbable halogenic compounds (AOX):
The product contains less than 0.1% of organically bound halogen per formulation.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Recommended cleaning agent: water.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

12 01 09 * machining emulsions and solutions free of halogens

Allocation of the waste code numbers must be realized under considerations of existing sector specifics and processes. The above allocation is a recommendation for the disposal of the product after recommended use.

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SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2011).

- Classification :



- Environmentally hazardous material :



UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(dicyclohexylamine, neutralized)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 601	E1	3	E

IMDG	Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 L	F-A,S-F	274 335	E1

IATA	Class	2° Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

The product should be used for industrial processing or applications only.

Abbreviations in chapter 8:

(I) Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages

AGS: Decision of the Committee for Dangerous Substances

Customs Tariff Code: 3403 1990

Title for H, EUH and R indications mentioned in section 3 :

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
R 20/22	Harmful by inhalation and if swallowed.
R 22	Harmful if swallowed.
R 34	Causes burns.
R 37	Irritating to respiratory system.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
R 43	May cause sensitisation by skin contact.
R 50	Very toxic to aquatic organisms.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).